

STIC-Biotech/ChemLib

152289

From: Swope, Sheridan
Sent: Monday, May 02, 2005 8:32 PM
To: STIC-Biotech/ChemLib
Cc: Schreiber, David
Subject: 09/940,235

RECEIVED
MAY - 3 2005
STIC-BIOTECH DIVISION
(STIC)

Hello!!

For 09/940,235 pls do the following interference search.

SID 2, residues 16-383, against the NT and AA data bases.

For any hits that have 100% homology with residues 16-383 of SID 2, please do the following.

- (1) Align SID 4, residues 1-106.
- (2) Align SID 4, residues 150-259.

Scan this page

PLEASE GIVE THIS SEARCH TO David Schreiber

Sheridan Swope, Ph.D.
Patent Examiner, AU 1652
Recombinant Enzymes
571-272-0943 (voice)
E02B71 Remsen Bld (Office)
E02C70 Remsen Bld (Mailbox)

STAFF USE ONLY

Searcher: D. Schreiber
Searcher Phone: 2- 2526
Date Searcher Picked up: 5/11
Date Completed: 5/11
Searcher Prep/Rev. Time: 12
Online Time: 35

Type of Search

NA#: 9 AA#: 9
Interference: ✓ SPDI:
S/L: Oligomer:
Encode/Transl: ✓
Structure#: Text:
Inventor: Litigation:

Vendors and cost where applicable

STN:
DIALOG:
QUESTEL/ORBIT:
LEXIS/NEXIS:
SEQUENCE SYSTEM: Sequing to
WWW/Internet:
Other(Specify):

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 11, 2005, 08:25:39 ; Search time 0.001 Seconds
(without alignments)
262.562 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 600
Sequence: 1 QAOQVQPQSPVAVSQSKPG.....SMINDCTCIGAGRISCTI 106

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 5 seqs, 2477 residues

Total number of hits satisfying chosen parameters: 5

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : rai2.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	33.5	5.6	414	1 US-09-211-542A-6	Sequence 6, Appli
2	33.5	5.6	414	1 5240845-1	Patent No. 5240845
3	33.5	5.6	414	1 5240845-1	Patent No. 5240845
4	33.5	5.6	440	1 US-08-560-098A-52	Sequence 52, Appl
5	33.5	5.6	795	1 US-09-211-542A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-211-542A-6
; Sequence 6, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211,542A
; FILING DATE: 15-December-1998

CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-211-542A-6

Query Match 5.6%; Score 33.5; DB 1; Length 414;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

QY 44 VCTCYGSGRGFNCESKPEAETCF-----DKYT 71
DB 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

RESULT 2
5240845-1
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS
; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO: 1:
; LENGTH: 414
5240845-1

Query Match 5.6%; Score 33.5; DB 1; Length 414;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

QY 44 VCTCYGSGRGFNCESKPEAETCF-----DKYT 71
DB 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

RESULT 3
5240845-1
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS
; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO: 1:
; LENGTH: 414
5240845-1

Query Match 5.6%; Score 33.5; DB 1; Length 414;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

QY 44 VCTCYGSGRGFNCESKPEAETCF-----DKYT 71
DB 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

Db 364 IITVYMGKR-----PGENASYHLAYDKRYT 390

RESULT 4

US-08-560-098A-52
; Sequence 52, Application US/08560098A
; Patent No. 5976841
; GENERAL INFORMATION:
; APPLICANT: WENDT, Stephan
; APPLICANT: HEINZEL-WIELAND, Regina
; APPLICANT: STEFFENS, Gerd Josef
; TITLE OF INVENTION: Proteins having Fibrinolytic and
; TITLE OF INVENTION: Coagulation-inhibiting Properties
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Evenson, McKown, Edwards & Lenahan
; STREET: 1200 G Street, N.W., Suite 700
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/560,098A
; FILING DATE: 17-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P 44 40 892.7
; FILING DATE: 17-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: EVANS, Joseph D.
; REGISTRATION NUMBER: 26,269
; REFERENCE/DOCKET NUMBER: 148/42448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-8800
; TELEFAX: (202) 628-8844
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 440 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-560-098A-52

Query Match 5.6%; Score 33.5; DB 1; Length 440;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

QY 44 VCTCYGSGRGFNCESKPEAEETCF-----DKYT 71

Db 390 IITVYMGKR-----PGENASYHLAYDKRYT 416

RESULT 5

US-09-211-542A-2
; Sequence 2, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/211,542A
FILING DATE: 15-December-1998
CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/069,497
FILING DATE: 15-December-1997
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Strimpel, Harriet M.
REGISTRATION NUMBER: 37,008
REFERENCE/DOCKET NUMBER: 1874/111
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)443-9292
TELEFAX: (617)443-0004
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 795 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-211-542A-2

Query Match 5.6%; Score 33.5; DB 1; Length 795;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

QY 44 VCTCYGSGRGFNCESKPEAEETCF-----DKYT 71

Db 745 IITVYMGKR-----PGENASYHLAYDKRYT 771

Search completed: May 11, 2005, 08:25:40

Job time : 1 secs

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OM protein - protein search, using sw model

Run on: May 11, 2005, 08:21:51 ; Search time 0.001 Seconds
(without alignments)
87.662 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 600
Sequence: 1 QAQMVPQSPVAVSQSPG.....SMWDCICGAGRISCTI 106

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 827 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : rapb2.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	33.5	5.6	413	1 US-10-360-101-264	Sequence 264, App
2	33.5	5.6	414	1 US-09-940-235-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-10-360-101-264
; Sequence 264, Application US/10360101
; Publication No. US20040009550A1
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornelis J.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101
; CURRENT FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 309
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 264
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sequence of streptokinase
US-10-360-101-264

Query Match 5.6%; Score 33.5; DB 1; Length 413;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGNCSKPEAETCF-----DKYT 71
Db 364 IITVYMGKR-----PEGNASYHLAYDKDRYT 390

RESULT 2

US-09-940-235-2
; Sequence 2, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE

; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN

; FILE REFERENCE: 07064-009002

; CURRENT APPLICATION NUMBER: US/09/940,235

; CURRENT FILING DATE: 2002-04-09

; PRIOR APPLICATION NUMBER: 09/471,349

; PRIOR FILING DATE: 1999-12-23

; PRIOR APPLICATION NUMBER: IN 3825/DEL/98

; PRIOR FILING DATE: 1998-12-24

; NUMBER OF SEQ ID NOS: 28

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 414

; TYPE: PRT

; ORGANISM: Streptococcus equisimilis

US-09-940-235-2

Query Match 5.6%; Score 33.5; DB 1; Length 414;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGNCSKPEAETCF-----DKYT 71

Db 364 IITVYMGKR-----PEGNASYHLAYDKDRYT 390

Search completed: May 11, 2005, 08:21:52
Job time : 1 secs

TELEFAX: (202) 371-2545
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 414 amino acids
 TYPE: amino acid
 STRANDEDNESS: both
 TOPOLOGY: both
 PCT-US93-09502-1

Query Match 5.6%; Score 33.5; DB 1; Length 414;
 Best Local Similarity 29.4%; Pred. No. 0;
 Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGFNCSEKPEAETCF-----DKYT 71
 Db 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

RESULT 4

US-07-956-692A-9
 Sequence 9 Application US/07956692A
 GENERAL INFORMATION:
 APPLICANT: Reed, Guy L.
 APPLICANT: Kussie, Paul
 APPLICANT: Parhami-Seren, Behnaz
 TITLE OF INVENTION: Recombinant Streptokinase Fragments with
 TITLE OF INVENTION: Decreased Antigenicity and Uses Thereof
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kessler, Goldstein and Fox
 STREET: 1225 Connecticut Avenue
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20036

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/956,692A
 FILING DATE: 19921005

CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Goldstein, Jorge A.
 REGISTRATION NUMBER: 29,021
 REFERENCE/DOCKET NUMBER: 0609.3570000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 833-7533
 TELEFAX: (202) 833-8716
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 414 amino acids
 TYPE: AMINO ACID
 STRANDEDNESS: both
 TOPOLOGY: both
 US-07-956-692A-9

Query Match 5.6%; Score 33.5; DB 1; Length 414;
 Best Local Similarity 29.4%; Pred. No. 0;
 Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGFNCSEKPEAETCF-----DKYT 71
 Db 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

RESULT 5

US-08-128-299-1
 Sequence 1 Application US/08128299
 GENERAL INFORMATION:
 APPLICANT: Reed, Guy L.

TITLE OF INVENTION: Peptides Specifically Binding to Plasminogen And the
 TITLE OF INVENTION: DNA Encoding Such Peptides
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kessler, Goldstein and Fox
 STREET: 1100 New York Avenue, Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/128,299
 FILING DATE: Herewith
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Sanzo, Michael A.
 REGISTRATION NUMBER: 36,912
 REFERENCE/DOCKET NUMBER: 0609.3570001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2545
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 414 amino acids
 TYPE: amino acid
 STRANDEDNESS: both
 TOPOLOGY: both
 US-08-128-299-1

Query Match 5.6%; Score 33.5; DB 1; Length 414;
 Best Local Similarity 29.4%; Pred. No. 0;
 Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGFNCSEKPEAETCF-----DKYT 71
 Db 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

RESULT 6

US-09-471-349-2
 Sequence 2 Application US/09471349
 GENERAL INFORMATION:
 APPLICANT: Sahni, Girish
 APPLICANT: Kumar, Rajesh
 APPLICANT: Roy, Chaiti
 APPLICANT: Rajagopal, Kamnara
 APPLICANT: Nihalani, Deepak
 APPLICANT: Sundaram, Vasudha
 APPLICANT: Yadav, Mahavir
 TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
 TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
 TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
 FILE REFERENCE: 07064/009001
 CURRENT APPLICATION NUMBER: US/09/471,349
 CURRENT FILING DATE: 1999-12-23
 PRIOR APPLICATION NUMBER: IN 3825/DEL/98
 PRIOR FILING DATE: 1998-12-24
 NUMBER OF SEQ ID NOS: 24
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 2
 LENGTH: 414
 TYPE: PPT
 ORGANISM: Streptococcus equisimilis

US-09-471-349-2
 Query Match 5.6%; Score 33.5; DB 1; Length 414;
 Best Local Similarity 29.4%; Pred. No. 0;
 Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGFNCSEKPEAETCF-----DKYT 71
 Db 364 IITVYMGKR-----PEGENASYHLAYDKDRYT 390

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OM protein - protein search, using sw model

Run on: May 11, 2005, 08:23:20 ; Search time 0.001 Seconds
(without alignments)
397.500 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 600
Sequence: 1 QAQQMVQPSPVAVSQSKPG.....SMIWDCTCTGAGRGRICTI 106

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 9 seqs, 3750 residues

Total number of hits satisfying chosen parameters: 9

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : rapm2.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	33.5	5.6	413	1 US-10-360-101-264	Sequence 264, App
2	33.5	5.6	413	1 US-10-360-101A-264	Sequence 264, App
3	33.5	5.6	414	1 PCT-US93-09502-1	Sequence 1, Appli
4	33.5	5.6	414	1 US-07-956-692A-9	Sequence 9, Appli
5	33.5	5.6	414	1 US-08-128-299-1	Sequence 1, Appli
6	33.5	5.6	414	1 US-09-471-349-2	Sequence 2, Appli
7	33.5	5.6	414	1 US-09-940-235-2	Sequence 2, Appli
8	33.5	5.6	414	1 US-10-631-558-2	Sequence 2, Appli
9	33.5	5.6	440	1 US-09-791-537-45187	Sequence 45187, A

ALIGNMENTS

RESULT 1
US-10-360-101-264
; Sequence 264, Application US/10360101A
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornelis J.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101
; PRIOR FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; NUMBER OF SEQ ID NOS: 309
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 264
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: sequence of streptokinase
US-10-360-101-264

Query Match 5.6%; Score 33.5; DB 1; Length 413;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGPNCSKPEAETCF-----DKYT 71
Db 364 IITVMGKR-----PEGENASYHLAYDKORYT 390

RESULT 2

US-10-360-101A-264
; Sequence 264, Application US/10360101A
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornelis J.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101A
; PRIOR FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; NUMBER OF SEQ ID NOS: 313
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 264
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: sequence of streptokinase
US-10-360-101A-264

Query Match 5.6%; Score 33.5; DB 1; Length 413;
Best Local Similarity 29.4%; Pred. No. 0;
Matches 10; Conservative 3; Mismatches 8; Indels 13; Gaps 2;

Qy 44 VCTCYGSGRGPNCSKPEAETCF-----DKYT 71
Db 364 IITVMGKR-----PEGENASYHLAYDKORYT 390

RESULT 3

PCT-US93-09502-1
; Sequence 1, Application PC/TUS9309502
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: Peptides Specifically Binding to Plasminogen And the
; TITLE OF INVENTION: DNA Encoding Such Peptides
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: Sterne, Kessler, Goldstein and Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: PCT/US93/09502
; APPLICATION NUMBER: PCT/US93/09502
; FILING DATE: Herewith
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanzo, Michael A.
; REGISTRATION NUMBER: 36,912
; REFERENCE/DOCKET NUMBER: 0609.3570001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: May 11, 2005, 08:36:10 ; Search time 1 Seconds
(without alignments)
1.563 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 600
Sequence: 1 QAQMVQPSVAVSQSKPG.....SMWDCTCAGGRISCTI 106

Scoring table:

BLASUM62	
Xgapop 10.0 , Xgapext 0.5	
Ygapop 10.0 , Ygapext 0.5	
Fgapop 6.0 , Fgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 5 seqs, 7373 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=soft -Q=Pending Patents AA Main:US-09-940-235-4
-DB=rni2.pep -SUFFIX=pto -OUT=align4_1_106_rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=106 -MATRIX=blasum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=45
-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-NCPD=6 -NO XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : rni2.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	45	7.5	1242	1 5240845-2	Patent No. 5240845
2	45	7.5	1262	1 5240845-3	Patent No. 5240845
C 3	43	7.2	1242	1 5240845-2	Patent No. 5240845
C 4	43	7.2	1262	1 5240845-3	Patent No. 5240845
C 5	38	6.3	2385	1 US-09-211-542A-1	Sequence 1, Appli
C 6	38	6.3	2385	1 US-09-211-542A-1	Sequence 1, Appli
C 7	33.5	5.6	1242	1 US-08-568-393B-1	Sequence 1, Appli
C 8	33.5	5.6	1242	1 US-09-211-542A-5	Sequence 5, Appli
C 9	28.5	4.8	1242	1 US-08-568-393B-1	Sequence 1, Appli
C 10	28.5	4.8	1242	1 US-09-211-542A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
5240845-2
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; . KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS

; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO:2:
; LENGTH: 1242
5240845-2

Alignment Scores:
Pred. No.: 1.16 Length: 1242
Score: 45.00 Matches: 22
Percent Similarity: 42.86% Conservatives: 11
Best Local Similarity: 28.57% Mismatches: 21
Query Match: 7.50% Indels: 23
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x 5240845-2 (1-1242)

Qy 6 ValGlnPro-----GlnSerProValAlaValSerGlnSerLysProGlyCysTyrAsp 23
Db 978 GTACGACCCGCGTGACAAAGCTAAACTGCTGTACACAA-----CCTGGATGCTTT--- 1028
Qy 24 AsnGlyLysHisTyrGlnIleAsnGlnGlnTrp-----GluArg-ThrTyrLeuGlyAs 41
Db 1029 -----CGGTATCATGGACTACACCTGCTGGTAAAGTAGAAGACCAACCATGACGACAC 1082
Qy 41 nValLeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGly 61
Db 1083 CAACCGTATCATCACCGTATACATGCGGCAACAGT-----CCGGA 1121
Qy 61 uAlaGluGluThrCysPhe-----AspLysTyrThr 71
Db 1122 AGGTGAAATGCATCTTACCATCTGGCATATGACAAAGACCGTTACACC 1170

RESULT 2
5240845-3
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; . KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS
; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO:3:
; LENGTH: 1262
5240845-3

Alignment Scores:
Pred. No.: 1.16 Length: 1262
Score: 45.00 Matches: 22
Percent Similarity: 42.86% Conservatives: 21
Best Local Similarity: 28.57% Mismatches: 21
Query Match: 7.50% Indels: 23
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x 5240845-3 (1-1262)

Qy 6 ValGlnPro-----GlnSerProValAlaValSerGlnSerLysProGlyCysTyrAsp 23
Db 992 GTACGACCCGCGTGACAAAGCTAAACTGCTGTACACAA-----CCTGGATGCTTT--- 1042
Qy 24 AsnGlyLysHisTyrGlnIleAsnGlnGlnTrp-----GluArg-ThrTyrLeuGlyAs 41
Db 1043 -----CGGTATCATGGACTACACCTGCTGGTAAAGTAGAAGACCAACCATGACGACAC 1096
Qy 41 nValLeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGly 61
Db 1097 CAACCGTATCATCACCGTATACATGCGGCAACAGT-----CCGGA 1135
Qy 61 uAlaGluGluThrCysPhe-----AspLysTyrThr 71

Db 993 GCCGAACATCCCGCAGACTGTCGCTTCTGGTATCGGTGCTGCTGCTGATCAACGC 1052

Qy 51 ---SerArgGlyPheAsnCysGluSerLysProGluAlaGluThrCysPheAsp 68
|||||
:::|||||

Db 1053 CGCCAGCGTGTGACACTGTGATGAAGCCCTGAAAGACGCGCAGACTAATTCGAG 1109

RESULT 6

US-09-211-542A-1/C
; Sequence 1, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211,542A
; FILING DATE: 15-December-1998
; CLASSIFICATION: 1653
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2385 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2385

US-09-211-542A-1

Alignment Scores:
Pred. No.: 4.17 Length: 2385
Score: 38.00 Matches: 11
Percent Similarity: 38.8% Conservative: 3
Best Local Similarity: 30.56% Mismatches: 22
Query Match: 6.33% Indels: 0
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-09-211-542A-1 (1-2385)

Qy 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
|||||
|||||

Db 1156 CAGGTCCAGCAATCTTACCTCGATGATGCCCGCGGGTACCGAGCTCGAATTAGTCT 1097

Qy 21 CysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArg 36
|||||
:::|||||

Db 1096 GCGCGCTCTTTCAGGCTTCATCGACACACTCTGACGACCGTGGCGGGCT 1049

RESULT 7

US-08-568-393B-1
; Sequence 1, Application US/08568393B

; Patent No. 5876999
; GENERAL INFORMATION:
; APPLICANT: Hua-Lin Wu
; TITLE OF INVENTION: Preparation of novel streptokinase
; TITLE OF INVENTION: mutants as improved thrombolytic agents
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jeing & Chang
; STREET: Two No. 5876999th Second Street, Suite 290
; CITY: San Jose
; STATE: California
; COUNTRY: USA
; ZIP: 95113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB
; MEDIUM TYPE: storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 6.1 on Window 3.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,393B
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Chi-Ping Chang
; REGISTRATION NUMBER: 37,798
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (408) 288-8585
; TELEFAX: (408) 288-8386
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1242 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE:
; HYPOTHETICAL: N
; ANTI-SENSE: N
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus equisimilis H46A
; INDIVIDUAL ISOLATE: Malke, H., Roe, B., and Ferretti, J. J.;
; INDIVIDUAL ISOLATE: "Nucleotide sequence of the streptokinase gene from Strepto
; INDIVIDUAL ISOLATE: equisimilis H46A" from Gene 34:357-362 (1985).
; CELL TYPE: Streptococcus equisimilis H46A
; US-08-568-393B-1

Alignment Scores:
Pred. No.: 7.53 Length: 1242
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 13
Query Match: 5.58% Indels: 8
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-08-568-393B-1 (1-1242)

Qy 44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
:::|||||
1090 ATCATAACCGTTTATATATGGCAAGCGA-----CCCGAAGGAGAG 1128

Db 64 GluThrCysPhe-----AspLysTyrThr 71
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Db 1129 AATGCTAGCTATCATTTAGCTATGATTAAGATCGTTATACC 1170

RESULT 8

US-09-211-542A-5
; Sequence 5, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR

NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROMBERG & SUNSTEIN, LLP
STREET: 125 Summer Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/211,542A
FILING DATE: 15-December-1998
CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/069,497
FILING DATE: 15-December-1997
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Strimpel, Harriet M.
REGISTRATION NUMBER: 37,008
REFERENCE/DOCKET NUMBER: 1874/111
TELEPHONE: (617)443-9292
TELEFAX: (617)443-0004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1242 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1242
US-09-211-542A-5

Alignment Scores:
Pred. No.: 7.53 Length: 1242
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-211-542A-5 (1-1242)

Qy 44 ValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCAATACCGCTTTATATATGGCAAGCGA-----CCGAGAGGAG 1128

Qy 64 GluThrCysPhe-----AspLysTyrThr 71
Db 1129 AATGCTAGCTATCATTTAGCTATGATAAAGATCGTTATACC 1170

RESULT 9
US-08-568-393B-1/c
Sequence 1, Application US/08568393B
Patent No. 5876999
GENERAL INFORMATION:
APPLICANT: Hua-Lin Wu
APPLICANT: Guey-Yueh Shi
TITLE OF INVENTION: Preparation of novel streptokinase
TITLE OF INVENTION: mutants as improved thrombolytic agents
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jeing & Chang
STREET: Two No. 5876999th Second Street, Suite 290
CITY: San Jose
STATE: California
COUNTRY: USA

ZIP: 95113
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB
MEDIUM TYPE: storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1 on Window 3.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/568,393B
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chi-Ping Chang
REGISTRATION NUMBER: 37,798
REFERENCE/DOCKET NUMBER:
TELEPHONE: (408) 288-8585
TELEFAX: (408) 288-8386
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1242 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE:
HYPOTHETICAL: N
ANTI-SENSE: N
ORIGINAL SOURCE:
ORGANISM: Streptococcus equisimilis H46A
INDIVIDUAL ISOLATE: Malke, H., Roe, B., and Ferretti, J. J.;
INDIVIDUAL ISOLATE: "Nucleotide sequence of the streptokinase gene from Streptococcus equisimilis H46A" from Gene 34:357-362 (1985).
CELL TYPE: Streptococcus equisimilis H46A
US-08-568-393B-1

Alignment Scores:
Pred. No.: 9.82 Length: 1242
Score: 28.50 Matches: 12
Percent Similarity: 34.62% Conservative: 6
Best Local Similarity: 23.08% Mismatches: 19
Query Match: 4.75% Indels: 15
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-08-568-393B-1 (1-1242)

Qy 5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22
Db 581 ATGGTGTCAACCATAGCTAGTGTGTTTCAATAGCTATCTTTGAGACCTGGTCTGAAA 522

Qy 23 AsphaGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42
Db 521 TCGTCATCAGGGTTTAAAGGGAGTAAC----- 495

Qy 43 LeuValCysThrCysTyrGlyGlySerArgGlyPhe 54
Db 494 -----TGTACAGTATATCCACATCAACAGATTTC 465

RESULT 10
US-09-211-542A-5/c
Sequence 5, Application US/09211542A
Patent No. 6210667
GENERAL INFORMATION:
APPLICANT: Reed, Guy L.
APPLICANT: BROMBERG & SUNSTEIN, LLP
TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROMBERG & SUNSTEIN, LLP
STREET: 125 Summer Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/211,542A
FILING DATE: 15-December-1998
CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/069,497
FILING DATE: 15-December-1997
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Strimpel, Harriet M.
REGISTRATION NUMBER: 37,008
REFERENCE/DOCKET NUMBER: 1874/111
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)443-9292
TELEFAX: (617)443-0004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1242 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1242
US-09-211-542A-5

Alignment Scores:
Pred. No.: 9.82 Length: 1242
Score: 28.50 Matches: 12
Percent Similarity: 34.62% Conservative: 6
Best Local Similarity: 23.08% Mismatches: 19
Query Match: 4.75% Indels: 15
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-211-542A-5 (1-1242)

Qy	5	MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr	22
Db	581	ATGGTGTCCACCGATAGTGTGTTTCAATAGCTTAGTATCTTTGAGACCTGGTCTGAAA	522
Qy	23	AspAsnGlyLysHisTyrGlnIleAsnGlnTTPGluArgThrTyrLeuGlyAsnVal	42
Db	521	TCGTATCATCAGGGTTTAAGGGAGTAAC-----	495
Qy	43	LeuValCysThrCysTyrGlyGlySerArgGlyPhe	54
Db	494	-----TGACAGTATATTCACATCAACAGATTTC	465

Search completed: May 11, 2005, 08:36:11
Job time : 1 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: May 11, 2005, 08:37:16 ; Search time 1 Seconds
(without alignments)
2.338 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 600
Sequence: 1 QAQMVPQSPVAVSQSKPG.....SMIWDCTCAGGRISCTI 106

Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 7 seqs, 11029 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame_p2n.model -DEV=soft -O=Pending Patents AA Main:US-09-940-235-4
-DB=rnpb2.pdb -SUPFIX=pto -OUT=align4_1_106_rnpb -MINMATCH=0.1 -LOOPEL=0
-LOPEXT=0 -UNITS=bits -START=1 -END=106 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=45
-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-NCPU=6 -NO_XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : rnpb2.pdb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	600	100.0	1661	1	US-09-940-235-10
2	160	26.7	1541	1	US-09-940-235-9
3	160	26.7	2096	1	US-09-940-235-12
4	109.5	18.2	1782	1	US-09-940-235-11
C 5	37.5	6.2	1782	1	US-09-940-235-11
C 6	37.5	6.2	2096	1	US-09-940-235-12
C 7	34	5.7	1541	1	US-09-940-235-9
8	33.5	5.6	1245	1	US-09-940-235-6
9	33.5	5.6	1327	1	US-09-940-235-5
10	33.5	5.6	1377	1	US-09-940-235-5
C 11	32	5.3	1661	1	US-09-940-235-10
C 12	29	4.8	1377	1	US-09-940-235-5
C 13	28.5	4.8	1245	1	US-09-940-235-1
C 14	28.5	4.8	1327	1	US-09-940-235-6

ALIGNMENTS

RESULT 1
US-09-940-235-10
; Sequence 10, Application US/09940235

; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10
Alignment Scores:
Pred. NO.: 1.72e-06 Length: 1661
Score: 600.00 Matches: 106
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0
US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerIysProGly 20
Db 1341 CAGCGCAGCAAAATGGTTTCAGCCCCAGTCCCGGTGGCTGTGAGTCAAGCAAGCCCGGT 1400
Qy 21 CysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTyrGluAtgThrTyrLeuGly 40
Db 1401 TGTATGACATGGAAACACTATCAGATAAATCAACAGTGGAGCGGACCTACTCTAGT 1460
Qy 41 AsnValLeuValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerIysPro 60
Db 1461 AATGTGTTGGTTTGTACTTGTATGGAGGAAGCCGAGGTTTAACTGCGAAAGTAAACCT 1520
Qy 61 GluAlaGluThrCysPheAspIysTyrThrGlyAsnThrTyrArgValGlyAspThr 80
Db 1521 GAAGCTGAAGAGACTTGTCTTTCACAAAGTACACTGCGAACACTTACCGAGTGGTGACACT 1580
Qy 81 TyrGluArgProLysAspSerMetIleTyrAspCysThrCysIleGlyAlaGlyArgGly 100
Db 1581 TATGAGCGTCTCTAAAGACTCCATGATCTGGGACTGTACTGCATCGGGGCTGGGCGAGGG 1640
Qy 101 ArgIleSerCysThrIle 106
Db 1641 AGAATAAGCTGTACCAATC 1658
RESULT 2
US-09-940-235-9
; Sequence 9, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara

```

; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-9

Alignment Scores:
Pred. No.: 0.228 Length: 1541
Score: 160.00 Matches: 41
Percent Similarity: 52.73% Conservative: 17
Best Local Similarity: 37.27% Mismatches: 32
Query Match: 26.67% Indels: 20
DB: 1 Gaps: 8

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)
Qy 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1191 CAGGCGCAACAGATTGTA-----CCCATAGCTGAGAAG----- 1223
Qy 21 CysTyrAspAsn-----GlyLysHisTyrGlnIleAsnGlnTrpGluArgThrTyr 38
Db 1224 TGTTTTGATCATGCTGCTGGACTTCCTATGTGTCGGAGAAACGTGGAGAACGCCCTAC 1283
Qy 39 LeuGlyAsnValLeuVal---CysThrCysTyrGly---GlySerArgGlyPheAsnCys 56
Db 1284 CAAGGCTGGATGATGGTAGATTGCTGCTGGAGAACGCGGACCGCATCACTGC 1343
Qy 57 GluSerLysProGluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArg 76
Db 1344 ACTTCTAGA-----AATAGATGCAACGATCAGGACACAAAGGACATCCTATAGA 1391
Qy 77 ValGlyAspThrTyrGluArgProLysAspSerMet-----IleTyrAspCysThrCys 94
Db 1392 ATTGGAGACACCTGGAGCAAG---AAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
Qy 95 IleGlyAlaGlyArgGlyArgIleSerCys 104
Db 1449 ACAGGCAACGCGGAGGAGAGTGAAGTGT 1478

RESULT 3
US-09-940-235-12
; Sequence 12, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID

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; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2096
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-12

Alignment Scores:
Pred. No.: 0.228 Length: 2096
Score: 160.00 Matches: 41
Percent Similarity: 52.73% Conservative: 17
Best Local Similarity: 37.27% Mismatches: 32
Query Match: 26.67% Indels: 20
DB: 1 Gaps: 8

US-09-940-235-4 (1-259) x US-09-940-235-12 (1-2096)
Qy 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1746 CAGGCGCAACAGATTGTA-----CCCATAGCTGAGAAG----- 1778
Qy 21 CysTyrAspAsn-----GlyLysHisTyrGlnIleAsnGlnTrpGluArgThrTyr 38
Db 1779 TGTTTTGATCATGCTGCTGGACTTCCTATGTGTCGGAGAAACGTGGAGAACGCCCTAC 1838
Qy 39 LeuGlyAsnValLeuVal---CysThrCysTyrGly---GlySerArgGlyPheAsnCys 56
Db 1839 CAAGGCTGGATGATGGTAGATTGCTGCTGGAGAACGCGGACCGCATCACTGC 1898
Qy 57 GluSerLysProGluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArg 76
Db 1899 ACTTCTAGA-----AATAGATGCAACGATCAGGACACAAAGGACATCCTATAGA 1946
Qy 77 ValGlyAspThrTyrGluArgProLysAspSerMet-----IleTyrAspCysThrCys 94
Db 1947 ATTGGAGACACCTGGAGCAAG---AAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 2003
Qy 95 IleGlyAlaGlyArgGlyArgIleSerCys 104
Db 2004 ACAGGCAACGCGGAGGAGAGTGAAGTGT 2033

RESULT 4
US-09-940-235-11
; Sequence 11, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23

```

```

; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-11

Alignment Scores:
Pred. No.: 0.862 Length: 1782
Score: 109.50 Matches: 30
Percent Similarity: 46.15% Conservative: 18
Best Local Similarity: 28.85% Mismatches: 31
Query Match: 18.25% Indels: 26
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
Qy 5 MetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCysTyrAspAsn 24
Db 230 ATGGTCAGACCAACAGATTGACCCATAGCTGAGAG-----TGTTTGATCAT 280
Qy 25 -----GlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42
Db 281 GCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGAGAAGCA-----GCGGACGC- 333
Qy 43 LeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGluAla 62
Db 334 ATCACTTGCACCT-----TCT 348
Qy 63 GluGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThrTyrGlu 82
Db 349 AGAAATAGATGCAACATGCTATGAGACATCTTATAGAAATTGGAGACACCTGGAGC 408
Qy 83 ArgProLysAspSerMet-----IleTrpAspCysThrCysIleGlyAlaGlyArgGly 100
Db 409 AG-----AAGATAATCGAGGAACCTGCTCCAGTGCATCTGCACAGCAACGCGCGAGGA 465
Qy 101 ArgIleSerCys 104
Db 466 GAGTGGAGGTGT 477

RESULT 5
US-09-940-235-11/c
; Sequence 11, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-12

Alignment Scores:
Pred. No.: 4.9 Length: 2096
Score: 37.50 Matches: 20
Percent Similarity: 36.76% Conservative: 5
Best Local Similarity: 29.41% Mismatches: 24
Query Match: 6.25% Indels: 19
DB: 1 Gaps: 5

US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
Qy 1 GlnAlaGlnGlnMetValGlnPro-----GlnSerProValAlaVal 14
Db 613 CAGTACCAGCAACCGTAACACCAATTTGGCTGTGTTCACAGATGGAGCGGTCTAGCAGCC 554
Qy 15 SerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrp 34
Db 553 ACTCAGGTCCAGCAA-----TACGAACATCGGTGAAGGGCCAGATCCGCTCGATGTGG 500
Qy 35 Glu-----ArgThrTyrLeuGlyAsnValLeuValCysThr 46
Db 499 TCTGCACAGAGGTGCTCTTCACACTTCCACTCTCTCTCGCGCGTTCGCTG---TGCAGA 443
Qy 47 CysTyrGlyGlySerArgGlyPhe 54
Db 442 TGCACCTGGAGCA-----GGTTTC 425

RESULT 6
US-09-940-235-12/c
; Sequence 12, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2096
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-12

Alignment Scores:
Pred. No.: 4.9 Length: 2096
Score: 37.50 Matches: 20
Percent Similarity: 36.76% Conservative: 5
Best Local Similarity: 29.41% Mismatches: 24
Query Match: 6.25% Indels: 19
DB: 1 Gaps: 5

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US-09-940-235-4 (1-259) x US-09-940-235-12 (1-2096)
Qy 1 GlnAlaGlnMetValGlnPro-----GlnSerProValAlaVal 14
Db 663 CAGTACCACGACGGTAAACAACCAATGGCTGTTGTGACAGATGACGGCTCAGCAGCC 604
Qy 15 SerGlnSerLysProGlyCysTyAspAsnGlyLysHisTyArgGlnGlnTrp 34
Db 603 ACTCAGTTCAGCAA-----TACGAACATCGGTGAAGGGCCAGATCCGCTCGATGTGG 550
Qy 35 Glu-----ArgThrTyrlieuGlyAsnValLeuValCysThr 46
Db 549 TCGCACAGAGGTGCGCTCTCACACTTCCTCGCGCGCTTGCCTG---TGCAGA 493
Qy 47 CysTyArgGlySerArgGlyPhe 54
Db 492 TGCACCTGGAGCA-----GGTTTC 475

RESULT 7
US-09-940-235-9/c
; Sequence 9, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-940-235-1
Alignment Scores:
Pred. No.: 5.33 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-1 (1-1245)
Qy 44 ValCysThrCysTyArgGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCATAACCGTTTATATATGCGCAGCGA-----CCGGAAGGAGAG 1128
Qy 64 GluThrCysPhe-----AspLysTyThr 71
Db 1129 AATGCTAGCTATCATTTAGCTATGATAAAGATCGTTATACC 1170

RESULT 9
US-09-940-235-6
; Sequence 6, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-9
Alignment Scores:
Pred. No.: 5.27 Length: 1541
Score: 34.00 Matches: 10
Percent Similarity: 48.39% Conservative: 5
Best Local Similarity: 32.26% Mismatches: 10
Query Match: 5.67% Indels: 6
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)
Qy 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1248 AAGTCCAGCAGCATGATCAAAACACTTCTCAGCTATGGGTACAATCTGTGGCGCTGGC 1189
Qy 21 CysTyArgAsnGlyLysHisTyArgGlnGlnTrp 31
Db 1188 -----CACCACCTAAT 1174

RESULT 8
US-09-940-235-1
; Sequence 1, Application US/09940235
; Publication No. US20030059921A1

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; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.:          Length:      1327
Score:              Matches:     10
Percent Similarity: 33.50%
Best Local Similarity: 38.24%
Query Match:        Mismatches:   3
Indels:             Gaps:         2
DB:

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)
Qy    44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db    1172 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1210
Qy    64 GluThrCysPhe-----AspLysTyrThr 71
Db    1211 AATGCTAGCTATCATTTTAGCCTATCATATAAAGATCGTTATACC 1252

RESULT 10
US-09-940-235-5
; Sequence 5, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10

Alignment Scores:
Pred. No.:          Length:      1661
Score:              Matches:       9
Percent Similarity: 43.24%
Best Local Similarity: 24.32%
Query Match:        Mismatches:  21
Indels:             Gaps:         0
DB:

US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy    15 SerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnTrp 34
Db    1641 TCCCTGCCAGCCCCGATGCAGTCAGTCCCAGATCATGGATCTTTAGGACGCTCAT 1582
Qy    35 GluArgThrTyrLeuGlyAsnValLeuValCysThrCysTyrGlyGlyser 51
Db    1581 AAGTGTCACCCACTCGGTAAAGTGTCCAGTGTAATTGTCAAACAAGTCT 1531

RESULT 12
US-09-940-235-5/c
; Sequence 5, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

Alignment Scores:
Pred. No.:          Length:      1377
Score:              Matches:      10
Percent Similarity: 33.50%
Best Local Similarity: 38.24%
Query Match:        Mismatches:   3
Indels:             Gaps:         2
DB:

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)
Qy    44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db    1222 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1260
Qy    64 GluThrCysPhe-----AspLysTyrThr 71
Db    1261 AATGCTAGCTATCATTTTAGCCTATCATATAAAGATCGTTATACC 1302

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; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

Alignment Scores:
Pred. No.: 5.83 Length: 1377
Score: 29.00 Matches: 11
Percent Similarity: 37.50% Conservative: 4
Best Local Similarity: 27.50% Mismatches: 15
Query Match: 4.83% Indels: 10
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)

Qy 3 GlnGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCys--- 21
Db 211 CACAGTACAGCAACGCTACACCAATT-----GGCTGTGT 173

Qy 22 -----TyrAspAsnGlyLysHisTyrGlnIleAsnGlnInTPGluAArgThrTyrIleu 39
Db 172 TGACAGATGACGGCTCTAGCAGCACTCAGTCCAGCAATCATGCTATATCTCTCTTTA 113

RESULT 13
US-09-940-235-1/c
; Sequence 1, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.: 5.89 Length: 1327
Score: 28.50 Matches: 12
Percent Similarity: 34.62% Conservative: 6
Best Local Similarity: 23.08% Mismatches: 19
Query Match: 4.75% Indels: 15
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)

Qy 5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22
Db 663 ATGGTGTCACCGATAGCTAGTGTCTTCAATAGCTAGTATCTTTGAGACCTCGTCTGAAA 604

Qy 23 AspAsnGlyLysHisTyrGlnIleAsnGlnInTPGluAArgThrTyrIleuGlyAsnVal 42
Db 603 TCGTCATCAGGTTTAAGGAGTAAC----- 577

Qy 43 LeuValCysThrCysTyrGlyGlySerArgGlyPhe 54
Db 576 -----TGTACAGTATATTCACATCAACAGATTTC 547

Search completed: May 11, 2005, 08:37:18
Job time : 2 secs
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OM protein - protein search, using sw model
Run on: May 11, 2005, 08:26:45 ; Search time 1 Seconds
(without alignments)
0.272 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 627
Sequence: 1 PIAEKCPHAGTSYVVGET.....ERHTSVQTTSSGSGPFTDVR 110

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 5 seqs, 2477 residues

Total number of hits satisfying chosen parameters: 5

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : rai2.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	33	5.3	795	1 US-09-211-542A-2	Sequence 2, Appli
2	31.5	5.0	414	1 US-09-211-542A-6	Sequence 6, Appl1
3	31.5	5.0	414	1 5240845-1	Patent No. 5240845
4	31.5	5.0	414	1 5240845-1	Patent No. 5240845
5	31.5	5.0	440	1 US-08-560-098A-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1
US-09-211-542A-2
; Sequence 2, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211,542A
; FILING DATE: 15-December-1998
; CLASSIFICATION: 1653
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; APPLICATION NUMBER: US/09/211,542A
; FILING DATE: 15-December-1998

CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 795 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-211-542A-2

Query Match 5.3%; Score 33; DB 1; Length 795;
Best Local Similarity 20.8%; Pred.No. 0;
Matches 22; Conservative 10; Mismatches 42; Indels 32; Gaps 5;

Qy 151 IAEKCPHAGTSYVVGETWEKPYQG-----WNVDTCLGEGSGRITCTSRN 198
Db 303 VALKSYEEELAKOPRIATMENAQKEIMPQMSAFWYAVRTAVINASGRQTVD--E 360
Qy 199 RCNDQDTRTSYRIGDTWSKKNRGNLLQICITGNR---GEWKCEK 241
Db 361 ALKDAQTNSSSVFG-----RGSI-----EGRIAGPEWLLDR 391

RESULT 2
US-09-211-542A-6
; Sequence 6, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211,542A
; FILING DATE: 15-December-1998
; CLASSIFICATION: 1653
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; APPLICATION NUMBER: US-09-211-542A-6

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 11, 2005, 08:28:59 ; Search time 0.001 Seconds
(without alignments)
90.970 Million cell updates/sec

Title: US-09-940-235-4
Perfect score: 627
Sequence: 1 PIAEKCFDHAAGTSYVVGET.....ERTSVQTTSSGSGPFTDVR 110

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 827 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : rapb2.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	31.5	5.0	413	1 US-10-360-101-264	Sequence 264, App
2	31.5	5.0	414	1 US-09-940-235-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-10-360-101-264
; Sequence 264, Application US/10360101
; Publication No. US20040009550A1
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornelis J.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101
; CURRENT FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 309
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 264
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sequence of streptokinase
US-10-360-101-264

Query Match 5.0%; Score 31.5; DB 1; Length 413;
Best Local Similarity 32.0%; Pred. No. 0;
Matches 16; Conservative 8; Mismatches 17; Indels 9; Gaps 3;

Qy 203 QDTR--TSYRIGDTWSKKDNRGNLL---QCICTNGRGWKCERHTSVQT 247
Db 180 KDTKLLKTLAIGDTITSQE----LLAQASILNKNHFGYTIYERDSSIVT 225

RESULT 2

US-09-940-235-2
; Sequence 2, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:

; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Streptococcus equisimilis
US-09-940-235-2

Query Match 5.0%; Score 31.5; DB 1; Length 414;
Best Local Similarity 32.0%; Pred. No. 0;
Matches 16; Conservative 8; Mismatches 17; Indels 9; Gaps 3;

Qy 203 QDTR--TSYRIGDTWSKKDNRGNLL---QCICTNGRGWKCERHTSVQT 247
Db 180 KDTKLLKTLAIGDTITSQE----LLAQASILNKNHFGYTIYERDSSIVT 225

Search completed: May 11, 2005, 08:28:59
Job time : 0.001 secs

RESULT 1
US-08-568-393B-1/c
; Sequence 1, Application US/08568393B
; Patent No. 5876999
; GENERAL INFORMATION:
; APPLICANT: Hua-Lin Wu
; APPLICANT: Guey-Yueh Shi

ADDRESSEE: BROMBERG &
STREET. 125 SUMMIT ST

RESULT 2
US-09-211-542A-5/c
; Sequence 5, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street

```

CURRENT APPLICATION DATA:
FILING DATE: 15-December-1998
CLASSIFICATION: 1653
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 60/069,497
  FILING DATE: 15-December-1997
  ATTORNEY/AGENT INFORMATION:
    NAME: Attorney, Strimpel, Harriet M.
    REGISTRATION NUMBER: 37,008
    REFERENCE/DOCKET NUMBER: 1874/111
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (617)443-9292
    TELEFAX: (617)443-0004
  INFORMATION FOR SEQ ID NO: 1:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 2385 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: cDNA
    FEATURE:
      NAME/KEY: CDS
      LOCATION: 1..2385
US-09-211-542A-1

Alignment Scores:
Pred. No.: 1.58
Score: 33.50
Percent Similarity: 41.94%
Best Local Similarity: 32.26%
Query Match: 5.34%
DB: 1

Length: 2385
Matches: 10
Conservative: 3
Mismatches: 6
Indels: 12
Gaps: 1

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Qy      168  GluThrTrrGlu-LysproTrrGlnGlyTrrpMetMetValAspCysThr----- 183
          |||||
Db      1680  GAGACCTGTCCTCAANTCGTCATCAGGGTTTAAAGGGAGTAAACTGTACAGTATATCCAC 1621
          |||||
Qy      184  -----CysLeuGly 186
          |||::|||

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2000

US-03-211-542A-1
; Sequence 1, Application US/09211542A
; Patent No. 6210667

APPLICANT: Reed, Guy L.

TITLE OF INVENTION:	BACTERIAL FIBRIN-DEFENDANT THERMOGENIC AGENT
NUMBER OF SEQUENCES:	14

ADDRESS: BROMBERG & SUNSTEIN, LLP

STREET: 125 Summer Street

;
; CITY: Boston

STATE: Massachusetts
COUNTRY: USA

COUNTRY: USA
ZTP: 02110

; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
;

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COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0. Version #1.25

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/ SOFTWARE: RELEASED RELEASE "1997" VERSION "1.0"
;
; CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/09/211,542A

FILING DATE: 15-December-1998

CLASSIFICATION: 1653
PRIOR APPLICATION DATA:

; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/069,497

FILING DATE: 15-December-1997

ATTORNEY/AGENT INFORMATION:

; NAME: Attorney, Strimpel, Harriet M.

```

; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2385 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2385
US-09-211-542A-1

Alignment Scores:
Pred. No.: 2.03 Length: 2385
Score: 33.00 Matches: 22
Percent Similarity: 30.19% Conservative: 10
Best Local Similarity: 20.75% Mismatches: 42
Query Match: 5.26% Indels: 32
DB: 1 Gaps: 5

US-09-940-235-4 (1-259) x US-09-211-542A-1 (1-2385)
Qy 151 ILeAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrp 170
Db 907 GTAGCGCTGAAGTCTTACGAGGAGAGATTGGCGAAGATCCAGTATTCGCCGCCACCATG 966
Qy 171 GluLysProTyrGlnGly-----TTPmet 178
Db 967 GAAACGCCAGAAAGGTGAATCATGCCGAACATCCCGCAGATGTCGCTTTCTGGTAT 1026
Qy 179 MetValAspCysThrCysLeuGlyGluGlySerGlyArgIleThrCysThrSerArgAsn 198
Db 1027 GCCGTGCGTACTGCGGTGATCAACGCCGCCGCGGTGTCGAGCTGTCGAT-----GAA 1080
Qy 199 ArgCysAsnAspGlnAspThrArgThrSerTyrArgIleGlyAspThrTrpSerLysLys 218
Db 1081 GCCGTGAAGACGCCGAGACTAATTCGAGTCGGTACCCGCG-----1122
Qy 219 AspAsnArgGlyAsnLeuLeuGlnCysIleCysThrGlyAsnGlyArg-----Gly 235
Db 1123 -----CGGGGATCCATC-----GAGGTAGGATTGCTGGACCT 1155
Qy 236 GluTrpLysCysGluArg 241
Db 1156 GAGTGGCTGCTAGACCGT 1173

RESULT 5
US-08-568-393B-1
; Sequence 1, Application US/08568393B
; Patent No. 5876999
; GENERAL INFORMATION:
; APPLICANT: Hua-Lin Wu
; TITLE OF INVENTION: Preparation of novel streptokinase
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: .Jeing & Chang
; STREET: Two No. 5876999th Second Street, Suite 290
; CITY: San Jose
; STATE: California
; COUNTRY: USA
; ZIP: 95113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB
; OPERATING SYSTEM: IBM PC compatible
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211.542A

; REGISTRATION NUMBER: 37,798
; REFERENCE/DOCKET NUMBER: 37,798
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (408) 288-8585
; TELEFAX: (408) 288-8386
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1242 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: N
; HYPOTHETICAL: N
; ANTI-SENSE: N
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus equisimilis H46A
; INDIVIDUAL ISOLATE: Malke, H., Roe, B., and Ferretti, J. J.;
; INDIVIDUAL ISOLATE: "Nucleotide sequence of the streptokinase gene from Streptococcus equisimilis H46A" from Gene 34:357-362 (1985).
; CELL TYPE: Streptococcus equisimilis H46A
US-08-568-393B-1

Alignment Scores:
Pred. No.: 4.04 Length: 1242
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-08-568-393B-1 (1-1242)
Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 538 AAAGATACTAGCTATTGAAACACATAGCTATCGGTGACACCATCATCTCAAGAA--- 594
Qy 221 ArgGlyAsnLeuLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 595 -----TTACTAGCTCAAGCACAAAGCATTTTAAACAAAACCCACCCAGGCTATACG 645
Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 646 ATTTATGACGCTGACTCCTCAATCGTCACT 675

RESULT 6
US-09-211-542A-5
; Sequence 5, Application US/09211542A
; Patent No. 6210667
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy L.
; TITLE OF INVENTION: BACTERIAL FIBRIN-DEPENDENT PLASMINOGEN ACTIVATOR
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROMBERG & SUNSTEIN, LLP
; STREET: 125 Summer Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/211.542A
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; FILING DATE: 15-December-1998
; CLASSIFICATION: D653
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/069,497
; FILING DATE: 15-December-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Attorney, Strimpel, Harriet M.
; REGISTRATION NUMBER: 37,008
; REFERENCE/DOCKET NUMBER: 1874/111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)443-9292
; TELEFAX: (617)443-0004
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1242 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1242
US-09-211-542A-5

Alignment Scores:
Pred. No.: 4.04 Length: 1242
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-211-542A-5 (1-1242)
Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 538 AAAGATACTACTATTGTAAACACATAGCTATCGGTGCACCACCATCAATCTCAAGAAA---594
Qy 221 ArgGlyAsnLeuLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTtp 237
Db 595 -----TTACTAGTCACGACAAGCAATTTTAACAAAAAACCCACCGAGCTATACG 645
Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 646 ATTTATGAACGTGACTCCTCAATCGTCACT 675

RESULT 7
5240845-2
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; . KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS
; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO:2
; LENGTH: 1242
5240845-2

Alignment Scores:
Pred. No.: 4.04 Length: 1242
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x 5240845-2 (1-1242)
Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220

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Db      174  CGGGGACAGGCCCTGTTGGGTTTACACCATGGCCGGACGAGAGGTGAGTGGATTTC 115
Qy      237  TrpLysCysGluArgHisThrSerValGlnThrThrSerSerGlySer 252
Db      114  GAAAAATTTCAGAGAGATGCTCGTTAGTACCTTCAACAGTGCCAGC 67
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RESULT 10

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5240845-3/c
; Patent No. 5240845
; APPLICANT: FUJII, SETSURO; TAKADA, KAORUKO; . KATANO, TAMIKI;
; MAJIMA, EIJI; OGINO, KOICHI; ONO, KENJI; SAKATA, YASUYO; UENOYAMA,
; TSUTOMU
; TITLE OF INVENTION: MUTATED STREPTOKINASE PROTEINS
; NUMBER OF SEQUENCES: 65
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/549,049
; FILING DATE: 06-JUL-1990
; SEQ ID NO:3:
; LENGTH: 1262
5240845-3
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Alignment Scores:
Pred. No.:      9.98      Length:      1262
Score:          27.00      Matches:      13
Percent Similarity: 44.44%      Conservative: 3
Best Local Similarity: 36.11%      Mismatches: 16
Query Match:      4.31%      Indels:      4
DB:              1      Gaps:      2
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US-09-940-235-4 (1-259) x 5240845-3 (1-1262)

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Qy      221  ArgGlyAsnLeuLeuGlnCysIleCysThr---GlyAsnGlyArgGlyGlu----- 236
Db      188  CGGGGACAGGCCCTGTTGGGTTTACACCATGGCCGGACGAGAGGTGAGTGGATTTC 129
Qy      237  TrpLysCysGluArgHisThrSerValGlnThrThrSerSerGlySer 252
Db      128  GAAAAATTTCAGAGAGATGCTCGTTAGTACCTTCAACAGTGCCAGC 81
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Search completed: May 11, 2005, 08:40:11
Job time : 1 secs

US-03-040-233-3
; Sequence 9, Application US/09940235

; PRIOR FILING DATE: 1999-12-23

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; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10
Alignment Scores:
Pred. No.: 1.99 Length: 1661
Score: 148.50 Matches: 34
Percent Similarity: 54.44% Conservatives: 15
Best Local Similarity: 37.78% Mismatches: 30
Query Match: 23.68% Indels: 11
DB: 1 Gaps: 6
US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy 155 CysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGluLysProTyr 174
Db 1401 TGTATGACAT-----GGAACACTATCATGATAATCAACAGTGGGACGACCTAC 1454
Qy 175 GlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArgLleThrCys 194
Db 1455 CTAGTAAATGTTGGT---TGTACTTGTATGGA---GGAAGCCGAGGTTTAACTGC 1508
Qy 195 ThrSerArg-----AsnArgCysAsnAspGlnAspThrArgThrSerTyrArg 210
Db 1509 GAAAGTAAACCTGAAGCTGAAGAGACTTGTCTTGACAAAGTACACTGGGAACACTTACCGA 1568
Qy 211 IleGlyAspThrTrpSerLys---LysAspAsnArgGlyAsnLeuGlnCysLleCys 229
Db 1569 GTGGGTGACATTTATGAGCTGCTAAAGACTCCATG-----ATCTGGGACTGTACTGC 1622
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCys 239
Db 1623 ATCGGGGCTGGCGGAGGAGATAAGCTGT 1652
RESULT 5
US-09-940-235-9/c
; Sequence 9, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-11
Alignment Scores:
Pred. No.: 5.43 Length: 1782
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservatives: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2
US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171
Db 496 GCACAGAGGTGCTCTCTC-----ACTTCCACTCTCTCTCGCCCGT----- 455
Qy 172 LysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191
Db 1455 -----TGCCTGTGCAGATGCATCGAGCGGTTC 1426
US-09-940-235-9 (1-1541)
Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171
Db 1497 GCACAGAGGTGCTCTCTC-----ACTTCCACTCTCTCTCGCCCGT----- 1456
Qy 172 LysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191
Db 1455 -----TGCCTGTGCAGATGCATCGAGCGGTTC 1426
US-09-940-235-11/c
; Sequence 11, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-11
Alignment Scores:
Pred. No.: 5.43 Length: 1782
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservatives: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2
US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171
Db 496 GCACAGAGGTGCTCTCTC-----ACTTCCACTCTCTCTCGCCCGT----- 455
Qy 172 LysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191
Db 1455 -----TGCCTGTGCAGATGCATCGAGCGGTTC 1426

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Db 454 -----TGCTGTGCAGATGCATCGACTGGAGCGGTTTC 425
Qy 192 IleThrCysThrSerArgAsnArgCys 200
Db 424 CTCGATTATCTCTTCGTCTCCAGGTGT 398

RESULT 7
US-09-940-235-12/c
; Sequence 12, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2096
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-12

Alignment Scores:
Pred. No.: 5.44 Length: 2096
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservative: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-12 (1-2096)
Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyValValGlyGluThrTrpGlu 171
Db 2052 GCACAGAGGTGTGCCTCTCAC-----ACTTCCACTCTCTCGCCCGT----- 2011
Qy 172 LysProTyGlnGlyTrpMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191
Db 2010 -----TGCTGTGCAGATGCATCGACTGGAGCGGTTTC 1981

RESULT 8
US-09-940-235-1/c
; Sequence 1, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir

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; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-940-235-1

Alignment Scores:
Pred. No.: 5.96 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-1 (1-1245)
Qy 168 GlnThrTrpGlu-LysProTyGlnGlyTrpMetMetValAspCysThr----- 183
Db 537 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAAGGAGTAAACTGACGATATATTCAC 478
Qy 184 -----CysLeuGly 186
Db 477 ATCAACAGATTTCGCTTGGTTTGTATTTGGT 447

RESULT 9
US-09-940-235-6/c
; Sequence 6, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.: 5.96 Length: 1327

```

Score: 33.50 Matches: 10
 Percent Similarity: 41.94% Conservatives: 3
 Best Local Similarity: 32.26% Mismatches: 6
 Query Match: 5.34% Indels: 12
 DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetValAspCysThr----- 183
 |||||
 Db 619 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAACGTGACAGTATATCCAC 560
 |||||
 Qy 184 -----CysLeuGly 186
 |||||
 Db 559 ATCAACAGATTTCGCTTGGTTTGTATTGGT 529
 |||||

RESULT 10

US-09-940-235-5/c
 ; Sequence 5, Application US/09940235
 ; Publication No. US20030059921A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kumar, Rajesh
 ; APPLICANT: Sahni, Girish
 ; APPLICANT: Roy, Chait
 ; APPLICANT: Rajagopal, Kammara
 ; APPLICANT: Nihalani, Deepak
 ; APPLICANT: Sundaram, Vasudha
 ; APPLICANT: Yadav, Mahavir
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
 ; TITLE OF INVENTION: PROTEIN
 ; FILE REFERENCE: 07064-009002
 ; CURRENT APPLICATION NUMBER: US/09/940,235
 ; CURRENT FILING DATE: 2002-04-09
 ; PRIOR APPLICATION NUMBER: 09/471,349
 ; PRIOR FILING DATE: 1999-12-23
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
 ; PRIOR FILING DATE: 1998-12-24
 ; NUMBER OF SEQ ID NOS: 28
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 1377
 ; TYPE: DNA
 ; ORGANISM: Streptococcus equisimilis
 ; OTHER INFORMATION: Hybrid cassette

Alignment Scores:
 Pred. No.: 5.97 Length: 1377
 Score: 33.50 Matches: 10
 Percent Similarity: 41.94% Conservatives: 3
 Best Local Similarity: 32.26% Mismatches: 6
 Query Match: 5.34% Indels: 12
 DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetValAspCysThr----- 183
 |||||
 Db 669 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAACGTGACAGTATATCCAC 610
 |||||
 Qy 184 -----CysLeuGly 186
 |||||
 Db 609 ATCAACAGATTTCGCTTGGTTTGTATTGGT 579
 |||||

RESULT 11

US-09-940-235-10/c
 ; Sequence 10, Application US/09940235
 ; Publication No. US20030059921A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kumar, Rajesh
 ; APPLICANT: Sahni, Girish
 ; APPLICANT: Roy, Chait

; APPLICANT: Rajagopal, Kammara
 ; APPLICANT: Nihalani, Deepak
 ; APPLICANT: Sundaram, Vasudha
 ; APPLICANT: Yadav, Mahavir
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
 ; TITLE OF INVENTION: PROTEIN
 ; FILE REFERENCE: 07064-009002
 ; CURRENT APPLICATION NUMBER: US/09/940,235
 ; CURRENT FILING DATE: 2002-04-09
 ; PRIOR APPLICATION NUMBER: 09/471,349
 ; PRIOR FILING DATE: 1999-12-23
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
 ; PRIOR FILING DATE: 1998-12-24
 ; NUMBER OF SEQ ID NOS: 28
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 10
 ; LENGTH: 1661
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Hybrid cassette

US-09-940-235-10

Alignment Scores:
 Pred. No.: 5.98 Length: 1661
 Score: 33.50 Matches: 10
 Percent Similarity: 41.94% Conservatives: 3
 Best Local Similarity: 32.26% Mismatches: 6
 Query Match: 5.34% Indels: 12
 DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetValAspCysThr----- 183
 |||||
 Db 719 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAACGTGACAGTATATCCAC 660
 |||||
 Qy 184 -----CysLeuGly 186
 |||||
 Db 659 ATCAACAGATTTCGCTTGGTTTGTATTGGT 629
 |||||

RESULT 12

US-09-940-235-1
 ; Sequence 1, Application US/09940235
 ; Publication No. US20030059921A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kumar, Rajesh
 ; APPLICANT: Sahni, Girish
 ; APPLICANT: Roy, Chait
 ; APPLICANT: Rajagopal, Kammara
 ; APPLICANT: Nihalani, Deepak
 ; APPLICANT: Sundaram, Vasudha
 ; APPLICANT: Yadav, Mahavir
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
 ; TITLE OF INVENTION: PROTEIN
 ; FILE REFERENCE: 07064-009002
 ; CURRENT APPLICATION NUMBER: US/09/940,235
 ; CURRENT FILING DATE: 2002-04-09
 ; PRIOR APPLICATION NUMBER: 09/471,349
 ; PRIOR FILING DATE: 1999-12-23
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
 ; PRIOR FILING DATE: 1998-12-24
 ; NUMBER OF SEQ ID NOS: 28
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 1245
 ; TYPE: DNA
 ; ORGANISM: Streptococcus equisimilis
 ; FEATURE:

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; NAME/KEY: CDS
; LOCATION: (1)....(1242)
US-09-940-235-1

Alignment Scores:
Pred. No.: 6.06 Length: 1245
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-940-235-1 (1-1245)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 538 AAAGATACCTAAGCTATTGAAACACTAGCTATCGTGACACCATCATCTCAAGAA---594
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 595 -----TTACTAGCTCAAGCACAAGCAATTTTAAACAAACCACCCAGGCTATACG 645

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 646 ATTTATGAACGTGACTCCTCAATCGTCACT 675

RESULT 13
US-09-940-235-6
; Sequence 6, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.: 6.06 Length: 1327
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 620 AAAGATACCTAAGCTATTGAAACACTAGCTATCGTGACACCATCATCTCAAGAA---676
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 946 -----TTACTAGCTCAAGCACAAGCAATTTTAAACAAACCACCCAGGCTATACG 727

; NAME/KEY: CDS
; LOCATION: (1)....(1242)
US-09-940-235-1

Alignment Scores:
Pred. No.: 6.06 Length: 1245
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-940-235-1 (1-1245)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 538 AAAGATACCTAAGCTATTGAAACACTAGCTATCGTGACACCATCATCTCAAGAA---594
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 595 -----TTACTAGCTCAAGCACAAGCAATTTTAAACAAACCACCCAGGCTATACG 645

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 646 ATTTATGAACGTGACTCCTCAATCGTCACT 675

RESULT 14
US-09-940-235-5
; Sequence 5, Application US/09940235
; Publication No. US20030059921A1
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT FILING DATE: 2002-04-09
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

Alignment Scores:
Pred. No.: 6.07 Length: 1377
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 670 AAAGATACCTAAGCTATTGAAACACTAGCTATCGTGACACCATCATCTCAAGAA---726
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 727 -----TTACTAGCTCAAGCACAAGCAATTTTAAACAAACCACCCAGGCTATACG 777

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 778 ATTTATGAACGTGACTCCTCAATCGTCACT 807

Search completed: May 11, 2005, 08:41:43
Job time : 1 secs
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